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1 Communications of the ACM: Volume 51 issue 9

September 2008   Communications of the ACM
Publisher: ACM

Full text available: Digital Edition, Pdf (8.68 MB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 796, Downloads (12 Months): 2819, Citation Count: 0

2 The DEFACTO system for human omnipresence to coordinate agent teams: the future of disaster response

Nathan Schurr, J. Marecki, N. Kasinadhuni, M. Tambe, J. P. Lewis, Paul Scerri

July 2005   AAMAS '05: Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems
Publisher: ACM

Full text available: Pdf (292.14 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 44, Citation Count: 0

Enabling interactions of agent-teams and humans is a critical area of research, with encouraging progress in the past few years. However, previous work suffers from three key limitations: (i) limited human situational awareness, reducing human effectiveness ...

Keywords: adustable autonomy, teamwork

3 A flexible approach for electronic medical records exchange

Vagelis Hristidis, Peter J. Clarke, Nagarajan Prabakar, Yi Deng, Jeffrey A. White, Redmond P. Burke

November 2006   HIKM '06: Proceedings of the international workshop on Healthcare information and knowledge management

Publisher: ACM

Full text available: Pdf (3.17 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 41,   Downloads (12 Months): 357,   Citation Count: 1

Many methodologies have been proposed in the last decade for integration and exchange of medical data. However, little progress has occurred due to the following reasons. First, patients are reluctant to give full access to their historical medical data. ...

Keywords: HIPAA, electronic medical record, exchange of medical records, patient record information systems

4 Xanalogical structure, needed now more than ever: parallel documents, deep links to content, deep versioning, and deep re-use

Theodor Holm Nelson

December 1999   Computing Surveys (CSUR) , Volume 31 Issue 4es

Publisher: ACM

Full text available: Pdf (787.72 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 125,   Citation Count: 15

5 Designing mobility models based on social network theory

Mirco Musolesi, Cecilia Mascolo

July 2007   SIGMOBILE Mobile Computing and Communications Review , Volume 11 Issue 3

Publisher: ACM

Full text available: Pdf (765.65 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 33,   Downloads (12 Months): 250,   Citation Count: 2

Validation of mobile ad hoc network protocols relies almost exclusively on simulation. The value of the validation is, therefore, highly dependent on how realistic the movement models used in the simulations are. Since there is a very limited number ...

6 Bioinformatics----an introduction for computer scientists

Jacques Cohen

June   Computing Surveys (CSUR) , Volume 36 Issue 2
2004
Publisher: ACM

Full text available: Pdf (261.56   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 167, Downloads (12 Months): 1163, Citation Count: 6

The article aims to introduce computer scientists to the new field of
bioinformatics. This area has arisen from the needs of biologists to utilize and
help interpret the vast amounts of data that are constantly being gathered in
genomic research---and ...

Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments,
cell simulation and modeling, computer, dynamic programming, hidden-Markov-
models, microarray, parsing biological sequences, phylogenetic trees

7 Consistent and compact data management in distributed storage systems

Baruch Awerbuch, Christian Scheideler

June   SPAA '04: Proceedings of the sixteenth annual ACM symposium on
2004   Parallelism in algorithms and architectures
Publisher: ACM

Full text available: Pdf (219.48   Additional Information: full citation, abstract, references, cited by,
KB)   index terms, review

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 44, Citation Count: 1

In this paper we consider the problem of maintaining a consistent mapping of a
virtual object space to a set of memory modules, i.e. the object space can be
decomposed into a set of ranges where every module is responsible for exactly
one range. A module ...

Keywords: distributed data management, load balancing, peer-to-peer systems,
range queries

8 Efficient query routing in distributed spatial databases

Roger Zimmermann, Wei-Shinn Ku, Wei-Cheng Chu

November   GIS '04: Proceedings of the 12th annual ACM international workshop
2004   on Geographic information systems
Publisher: ACM

Full text available: Pdf (286.06   Additional Information: full citation, abstract, references, index
KB)   terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 141, Citation Count: 0

Spatial databases are prominently used in Geographic Information System (GIS)
applications. However, many of the current architectures rely on a centralized
data repository. The next evolution will be GIS applications that utilize and
integrate a multitude ...

Keywords: database middleware, distributed spatial databases, query routing

9 Multiple simultaneous acoustic source localization in urban terrain

Ákos Lédeczi, Péter Völgyesi, Miklós Maróti, Gyula Simon, György Balogh, András Nádas, Branislav Kusy, Sebestyén Dóra, Gábor Pap

April 2005   IPSN '05: Proceedings of the 4th international symposium on Information processing in sensor networks

Publisher: IEEE Press

Full text available: 📄 Pdf (326.90 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 77,   Citation Count: 2

Experiences developing a sensor network-based acoustic shooter localization system are presented. The system is able to localize the position of a shooter and the trajectory of the projectile using observed acoustic events, such as the muzzle blast and ...

Keywords: acoustic source localization, message routing, sensor fusion, time synchronization, wireless sensor network

10 Using FPGAs for data and reorganization engines: preliminary results for spatial pointer-based data structures

Pedro C. Diniz, Joonseok Park

February 2003   FPGA '03: Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Publisher: ACM

Full text available: 📄 Pdf (187.05 KB)   Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 12,   Citation Count: 0

FPGAs have appealing features such as customizable internal and external bandwidth and the ability to exploit vast amounts of fine-grain instruction-level parallelism. In this paper we explore the applicability of these features in using FPGAs as data ...

11 Avoiding the blues for airline travelers

Jane L. Snowdon, Soad El-Taji, Mario Montevecchi, Edward MacNair, C. Adam Callery, Scott Miller

December 1998   WSC '98: Proceedings of the 30th conference on Winter simulation

Publisher: IEEE Computer Society Press

Full text available: 📄 Pdf (806.26 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 37,   Citation Count: 2

12 Persistent realtime building interior generation

Evan Hahn, Prosenjit Bose, Anthony Whitehead

July 2006   Sandbox '06: Proceedings of the 2006 ACM SIGGRAPH symposium on Videogames

Publisher: ACM

Full text available: Pdf (615.18 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 100,   Citation Count: 0

A novel approach to generate virtual building interiors in real-time is presented. The interiors are generated in a top-down fashion using architectural guidelines. Although a building interior in its entirety may be quite large, only the portions that ...

Keywords: architecture, modelling, persistence, procedural generation, realtime, sandbox games, video games

13 Extraction of flat and nested data records from web pages

Siddu P. Algur, P. S. Hiremath

November 2006   AusDM '06: Proceedings of the fifth Australasian conference on Data mining and analytics - Volume 61 , Volume 61

Publisher: Australian Computer Society, Inc.

Full text available: Pdf (391.08 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 16,   Downloads (12 Months): 89,   Citation Count: 0

This paper deals with studies the problem of identification and extraction of flat and nested data records from a given web page. With the explosive growth of information sources available on the World Wide Web, it has become increasingly difficult to ...

Keywords: web data records, web data regions, web mining

14 Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies

Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan

August 1998   The VLDB Journal — The International Journal on Very Large Data Bases , Volume 7 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (281.37 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 93,   Citation Count: 30

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, ...

15 Context sensitive access control

R. J. Hulsebosch, A. H. Salden, M. S. Bargh, P. W. G. Ebben, J. Reitsma

June 2005   SACMAT '05: Proceedings of the tenth ACM symposium on Access control models and technologies

Publisher: ACM

Full text available: 📄 Pdf (145.62 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 41,   Downloads (12 Months): 268,   Citation Count: 7

We investigate the practical feasibility of using context information for controlling access to services. Based solely on situational context, we show that users can be transparently provided anonymous access to services and that service providers can ...

Keywords: access control, authentication, context sensitive, context verification, service usage patterns

16 The RTRT core

Ingo Wald

July 2005   SIGGRAPH '05: SIGGRAPH 2005 Courses

Publisher: ACM

Full text available: 📄 Pdf (1.13 MB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 75,   Citation Count: 0

The overall design decisions of the RTRT/OpenRT framework are described in detail in [Wald04]. To summarize the most important points, we have chosen to only support triangles, to exploit SIMD extensions in a data-parallel way, to optimize for memory ...

17 Cooperative scans: dynamic bandwidth sharing in a DBMS

Marcin Zukowski, Sándor Héman, Niels Nes, Peter Boncz

September 2007   VLDB '07: Proceedings of the 33rd international conference on Very large data bases

Publisher: VLDB Endowment

Full text available: 📄 Pdf (462.51 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 78,   Citation Count: 2

This paper analyzes the performance of concurrent (index) scan operations in both record (NSM/PAX) and column (DSM) disk storage models and shows that existing scheduling policies do not fully exploit data-sharing opportunities and therefore result in ...

18 Hybrid index structures for location-based web search

Yinghua Zhou, Xing Xie, Chuang Wang, Yuchang Gong, Wei-Ying Ma

October 2005   CIKM '05: Proceedings of the 14th ACM international conference on Information and knowledge management

Publisher: ACM

Full text available: Pdf (311.46 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 33,   Downloads (12 Months): 188,   Citation Count: 6

There is more and more commercial and research interest in location-based web search, i.e. finding web content whose topic is related to a particular place or region. In this type of search, location information should be indexed as well as text information. ...

Keywords: geographical ranking, geographical scope, location-based web search, spatial index, textual index

19 Speeding up construction of PMR quadtree-based spatial indexes

Gísli R. Hjaltason, Hanan Samet

October 2002   The VLDB Journal — The International Journal on Very Large Data Bases , Volume 11 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (355.72 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 98,   Citation Count: 3

Spatial indexes, such as those based on the quadtree, are important in spatial databases for efficient execution of queries involving spatial constraints, especially when the queries involve spatial joins. In this paper we present a number of techniques ...

Keywords: Bulk-loading, I/O, Spatial indexing

20 Evaluation campaigns and TRECVid

Alan F. Smeaton, Paul Over, Wessel Kraaij

October 2006   MIR '06: Proceedings of the 8th ACM international workshop on Multimedia information retrieval

Publisher: ACM

Full text available: Pdf (1.00 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 158,   Citation Count: 27

The TREC Video Retrieval Evaluation (TRECVid)is an international benchmarking activity to encourage research in video information retrieval by providing a large test collection, uniform scoring procedures, and a forum for organizations 1 interested in ...

Keywords: benchmarking, evaluation, video retrieval

Result page: 1   2   3   4   5   6   7   8   9   10   next
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